\_\_\_\_\_\_

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=7; day=28; hr=15; min=13; sec=31; ms=573; ]

\_\_\_\_\_\_

## Validated By CRFValidator v 1.0.3

Application No: 10594674 Version No: 2.1

Input Set:

Output Set:

**Started:** 2009-07-28 15:06:55.206

**Finished:** 2009-07-28 15:06:56.879

**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 673 ms

Total Warnings: 61
Total Errors: 0

No. of SeqIDs Defined: 61

Actual SeqID Count: 61

Error code		Error Description										
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(1)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(2)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(3)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(4)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(5)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(6)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(7)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(8)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(9)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(10)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(11)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(12)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(13)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(14)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(15)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(16)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(17)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(18)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(19)	
W	213	Artificial o	r	Unknown	found	in	<213>	in	SEQ	ID	(20)	

Input Set:

Output Set:

**Started:** 2009-07-28 15:06:55.206 **Finished:** 2009-07-28 15:06:56.879

**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 673 ms

Total Warnings: 61
Total Errors: 0

No. of SeqIDs Defined: 61

Actual SeqID Count: 61

Error code Error Description

This error has occured more than 20 times, will not be displayed

## SEQUENCE LISTING

```
<110> Universite Bordeaux 2
      Mossalayi, Mohamad Djavad
      Moynet, Daniel
      Vincendeau, Philippe
<120> Peptides and Peptidomimetics binding to CD23
<130> 604-790
<140> 10/594,674
<141> 2007-02-13
<150> PCT/IB2005/001133
<151> 2005-04-05
<150> EP04290899.6
<151> 2004-04-05
<160> 61
<170> PatentIn version 3.2
<210> 1
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 1
Phe His Glu Asn Trp Pro Ser
              5
<210> 2
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 2
Phe His Glu Phe Trp Pro Thr
<210> 3
<211> 7
<212> PRT
```

<213> Artificial

```
<220>
<223> CD23 binding peptide
<400> 3
Phe His Ser Gln Trp Pro Asn
<210> 4
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 4
Phe His Glu Asn Trp Pro
              5
<210> 5
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 5
Phe His Glu Asn Trp Pro Thr
<210> 6
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 6
Phe His Glu Gln Trp Pro Ser
<210> 7
<211> 6
<212> PRT
<213> Artificial
```

```
<223> CD23 binding peptide
<400> 7
His Glu Asn Trp Pro Ser
<210> 8
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 8
His Lys Asn Trp Pro Ser
<210> 9
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 9
His Glu Asn Trp Pro Ser Phe
<210> 10
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 10
Phe His Lys Pro Trp Arg Ala
<210> 11
<211> 21
<212> DNA
<213> Artificial
<220>
<223> nucleotide sequence encoding CD23 binding peptide
```

```
<400> 11
                                                                     21
tttcatgaga attggccttc g
<210> 12
<211> 21
<212> DNA
<213> Artificial
<220>
<223> nucleotide sequence encoding CD23 binding peptide
<400> 12
tttcatgagt tttggcctac c
                                                                     21
<210> 13
<211> 21
<212> DNA
<213> Artificial
<220>
<223> nucleotide sequence encoding CD23 binding peptide
<400> 13
                                                                     21
tttcattcgc agtggcctaa c
<210> 14
<211> 18
<212> DNA
<213> Artificial
<220>
<223> nucleotide sequence encoding CD23 binding peptide
<400> 14
tttcatgaga attggcct
                                                                     18
<210> 15
<211> 21
<212> DNA
<213> Artificial
<220>
<223> nucleotide sequence encoding CD23 binding peptide
<400> 15
tttcatgaga attggcctac c
                                                                     21
<210> 16
<211> 21
<212> DNA
```

<213> Artificial

<220>		
<223>	nucleotide sequence encoding CD23 binding peptide	
<400>	16	
	gage agtggeette g	21
cccac	gage ageggeeree g	21
<210>	17	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	nucleotide sequence encoding CD23 binding peptide	
<400>	17	
	aatt ggcetteg	18
<210>	18	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	nucleotide sequence encoding CD23 binding peptide	
<400>	18	
	aatt ggeetteg	18
cacaage	ace ggooceg	
<210>	19	
<211>	21	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	nucleotide sequence encoding CD23 binding peptide	
100		
<400>	19	2.1
Catgaga	aatt ggccttcgtt t	21
<210>	20	
<211>	21	
<212>	DNA	
<213>	Artificial	
<220>	2222	
<223>	nucleotide sequence encoding CD23 binding peptide	
<400>	20	
	aagc cttggagggc c	21
		_

```
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 21
Phe His Glu Ser Trp Pro Pro
<210> 22
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 22
Phe His Glu Phe Trp Pro Leu
<210> 23
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 23
Phe His Ser Gln Trp Pro Gly
<210> 24
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be tetrahydrolsoquinoline-3-carboxylic
       acid, 4' indolyl alanine, or beta tryptophan
```

```
His Glu Asn Xaa Pro Ser
<210> 25
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 25
His Asn Glu Trp Pro Ser
<210> 26
<211> 5
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 26
His Glu Asn Trp Pro
<210> 27
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 27
His Glu Pro Trp Arg Ser
<210> 28
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 28
```

```
1 5
<210> 29
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide; all amino acids are D-form
<400> 29
Ser Pro Trp Asn Glu His
             5
<210> 30
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 30
His Cys Asn Trp Cys Ser
<210> 31
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 31
His Glu Asn Trp Lys Ser
             5
<210> 32
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
```

His Pro Asn Trp Arg Ser

<221> misc\_feature

```
<223> Xaa can be 1-amino cyclopentane-1-carboxylic acid, beta alanine,
       \mathbb{N}-\text{methyl} glycine, or 1-(\text{amino methyl}) cyclopentane-1-\text{carboxylic}
       acid
<400> 32
His Glu Asn Trp Xaa Ser
<210> 33
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 33
His Glu Asn Trp Pro Ser Gly
<210> 34
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 34
His Glu Asn Trp Gly Ser
<210> 35
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 35
His Glu Asn Trp Glu Ser
<210> 36
<211> 7
<212> PRT
```

<222> (5)..(5)

<213> Artificial

```
<220>
<223> CD23 binding peptide
<400> 36
Phe His Glu Asn Trp Glu Ser
<210> 37
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 37
Phe His Glu Asn Trp Pro Ala
<210> 38
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 38
Phe His Glu Asn Trp Ala Ser
<210> 39
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 39
Phe His Glu Asn Ala Pro Ser
<210> 40
<211> 7
<212> PRT
<213> Artificial
```

```
<220>
<223> CD23 binding peptide
<400> 40
Phe His Glu Ala Trp Pro Ser
<210> 41
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 41
Phe His Ala Asn Trp Pro Ser
              5
<210> 42
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 42
Phe Ala Glu Asn Trp Pro Ser
<210> 43
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa can be beta alanine or the D-form of
      proline
<400> 43
Phe His Glu Asn Trp Xaa Ser
```

```
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa can be beta alanine, the D-form of
      tryptophan, or tetrahydronorharman-3-carboxylic acid
<400> 44
Phe His Glu Asn Xaa Ser
<210> 45
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be beta alanine or the D-form of
      asparagine
<400> 45
Phe His Glu Xaa Trp Pro Ser
              5
<210> 46
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is beta alanine
```

<210> 44

```
<400> 46
Phe His Xaa Asn Trp Pro Ser
<210> 47
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa can be beta alanine or the D-form of
      histidine
<400> 47
Phe Xaa Glu Asn Trp Pro Ser
<210> 48
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 48
His Glu Gln Trp Pro Ser
<210> 49
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 49
```

<210> 50 <211> 6

Arg Glu Asn Trp Pro Ser 1 5

```
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 50
His Gln Asn Trp Pro Ser
<210> 51
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is 1-amino cyclopentane-1-carboxylic acid
<400> 51
His Glu Gln Trp Xaa Ser
<210> 52
<211> 7
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 52
Ser Pro Trp Asn Glu His Phe
              5
<210> 53
<211> 6
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 53
```

His Glu Asn Ala Pro Ser

<212> PRT

1 5

<220>

```
<210> 54
<211> 5
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<400> 54
His Glu Asn Trp Ser
<210> 55
<211> 5
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is glycine with allyl group -CH2-CH=CH2
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa is glycine with allyl group -CH2-CH=CH2
<400> 55
Xaa Asn Trp Xaa Ser
<210> 56
<211> 4
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is glycine with allyl group -CH2-CH=CH2
```

```
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa is glycine with allyl group -CH2-CH=CH2
<400> 56
Xaa Asn Trp Xaa
<210> 57
<211> 2
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is D-enantiomer of acetylated tryptophane
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is D-enantiomer of asparagine
<400> 57
Xaa Xaa
<210> 58
<211> 2
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is acetylated asparagine
<400> 58
Xaa Trp
<210> 59
<211> 2
```

```
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is D-enantiomer of acetylated asparagine
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is D-enantiomer of tryptophane
<400> 59
Xaa Xaa
<210> 60
<211> 3
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is acetylated asparagine
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa is beta-alanine
<400> 60
Xaa Trp Xaa
<210> 61
<211> 5
<212> PRT
<213> Artificial
<220>
<223> CD23 binding peptide
```

```
<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa is amidated proline
<400> 61

His Glu Asn Trp Xaa
```